

## Active Recombinant Mouse Cxcl12 Protein (Gly21-Lys89), C-His tagged, Animal-free, Carrier-free

**Cat. No.** Cxcl12-80M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant Mouse Cxcl12 Protein (Gly21-Lys89) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Gly21-Lys89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | C-X-C motif chemokine 12 (CXCL12) also named stromal cell-derived factor 1 (SDF-1), which is a chemokine of the intercrine alpha family. CXCL12 is a 7.8 kDa protein containing 70 amino acid residues. CXCL12 has a key role in controlling the immune responses which is often induced by the lipopolysaccharide or IL-1. CXCL12 also activates the leukocytes during inflammation. CXCL12 induces the migration and proliferation of cells like hematopoietic progenitor, stem cells and leukocytes. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Bio-activity</b>     | Measure by its ability to chemoattract BaF3 cells transfected with human CXCR4. The ED50 for this effect is < 0.5 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 8.97 kDa.<br>The protein migrates below 11 kDa under reducing condition (SDS-PAGE analysis).                                                                                                                                                                                                                                                                                                                                                                         |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.1 EU/μg of the protein by the LAL method.                                                                                                                                                                                                                    |
| <b>Purity</b>         | >98% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                         |
| <b>Storage</b>        | <p>This product is stable after storage at:</p> <p>-20 centigrade for 12 months in lyophilized state from date of receipt.</p> <p>-20 or -80 centigrade for 1 month under sterile conditions after reconstitution.</p> <p>Avoid repeated freeze/thaw cycles.</p> |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                      |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.                                          |
| <b>Shipping</b>       | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cxcl12 chemokine (C-X-C motif) ligand 12 [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                                                   |
| <b>Official Symbol</b> | Cxcl12                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | CXCL12; chemokine (C-X-C motif) ligand 12; stromal cell-derived factor 1; C-X-C motif chemokine 12; pre-B cell growth-stimulating factor; pre-B-cell growth-stimulating factor; thymic lymphoma cell-stimulating factor; 12-O-tetradecanoylphorbol 13-acetate repressed protein 1; Pbsf; Sdf1; Tlsf; Sdf1a; Sdf1b; Tlsfa; Tlsfb; Tpar1; Scyb12; AI174028; |
| <b>Gene ID</b>         | 20315                                                                                                                                                                                                                                                                                                                                                     |

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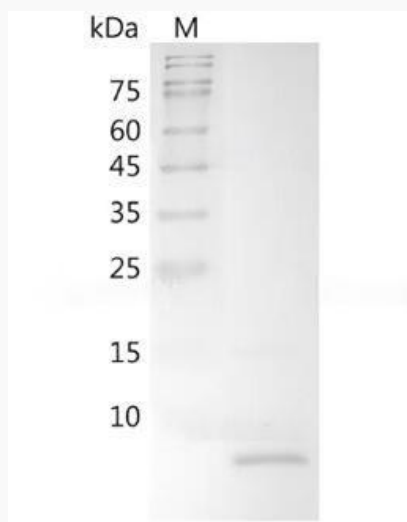
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mRNA Refseq [NM\\_001012477](#)

Protein Refseq [NP\\_001012495](#)

UniProt ID [P40224](#)

**SDS-PAGE analysis  
of recombinant  
mouse CXCL12.**



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